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Study of Relationship between Susceptibility to Certain Cancers and Aryl
Hydrocarbon Hydroxylase (AHH) Activity.

The aims of this project are to establish a repeatable test of AHH inducibility in humans, and to correlate AHH inducibility with susceptibility to cancers of lung and other "chemically induced" human tumors.

The investigators' initial approach is to try to establish a repeatable test of AHH inducibility in human peripheral blood lymphocytes. Failing this, other tissues such as skin fibroblast culture lines will be tested.

At present, the investigators cannot get repeatable results with peripheral blood lymphocytes using 3-methylcholanthrene (3MC) in acetone as the inducer. Different methods of delivering the 3MC to the cells are being tried as well as other inducers.

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